



# Recombinant Rat Cartilage oligomeric matrix protein (Comp)

<b>Product Code</b>	CSB-YP005778RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P35444
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>Q GQIPLGGDLA PQMLRELQET NAALQDVREL LRHRVKEITF LKNTVMECDA  CGMQPARTPG LSVRPVALCA PGSCFPGVVC TETATGARCG  PCPPGYTGNG SHCTDVNECN AHPCFPRVRC INTSPGFHCE ACPPGFSGPT  HEGVGLTFAK TNKQVCTDIN ECETGQHNCV PNSVCVNTRG SFQCGPCQPG  FVG DQRSGCQ RRGQHFCPDG SPSPCHEKAD CILERDGSRS  CVC AVGWAGN GLLCGRDIDL DGFPDEKLRC SERQCRKDNC  VTV PNSGQED VDRDRIGDAC DPDADGDGVP NEQDNCPLVR  NPDQRNSDKD KWGDACDNCR SQKNDDQKDT DRDGQGDACD  DDIDGDRIRN VADNCPVFN FDQSDSDGDG VGDACDNCPQ  KDNPDQRDVD HDFVGDACDS DQDQDGDGHQ DSRDNCPTVP  NSAQQSDSDHD GKGDACDDDD DNDGVPDSRD NCRLVPNPGQ  EDNDRDGVGD ACQGDFDADK VIDKIDVCPE NAEVTLTDFR AFQTVVLDPE  GDAQIDPNWV VLNQGM EIVQ TMNSDPGLAV GYTAFNGVDF EGT FHVNTAT  DDDYAGFIFG YQDSSSFYVV MWKQMEQTYW QANPFRVAE PGIQLKAVKS  STGPGEQLRN ALWHTGDTAS QVRLWWDPR NVGWKDKTSY  RWFLQHRPQV GYIRVRFYEG PELVADSNVV LDTAMRGGRL GVFCFSQENI  IWANLRYRCN DTIPEDYERH RLRA</p>
<b>Source</b>	Yeast
<b>Target Names</b>	Comp
<b>Protein Names</b>	Recommended name: Cartilage oligomeric matrix protein Short name= COMP
<b>Expression Region</b>	20-755
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Mutations can cause the osteochondrodysplasias pseudocondroplasia (PSACH) and multiple



epiphyseal dysplasia (MED).

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.